

## ERRATUM

# The Strong and Weak Senses of Theory-Ladeness of Experimentation: Theory-Driven versus Exploratory Experiments in the History of High-Energy Particle Physics – ERRATUM

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In the article by Karaca published in the March 2013 issue of *Science in Context*, there were errors in the text. The corrections are listed below:

On page 110, the mathematical expression satisfied by the “high energy behavior of the elastic hadron-hadron differential scattering cross section” was printed incorrectly. The correct expression is provided below.

$$\frac{1}{k^2} \frac{d\sigma}{d\Omega} \rightarrow F(t) \left( \frac{S}{2M^2} \right)^{2L(t)-2}$$

On page 119, footnote 58 was incorrectly printed. It should read as follows:

It is worth pointing out that, as noted in Bjorken 2003, 1–4, the scaling hypothesis was first formulated by Bjorken in an incomplete, unpublished manuscript prior to the DIS experiments; see Bjorken 1967a. See also Bjorken 1967c, which draws on Bjorken 1967a, but is less ambitious in scope.

On page 124, several characters were incorrectly typeset:

“ $R$  should diminish like  $\frac{1}{v}$ ” should read “ $R$  should diminish like  $\frac{1}{v}$ ”

“for  $w \leq 5$ ” should read “for  $\omega \leq 5$ ”

“i.e., it behaved as  $\frac{1}{v}$ ” should read “i.e., it behaved as  $\frac{1}{v}$ ”

The following references should have been included in the bibliography:

Bjorken, James D. (1968). “Asymptotic sum rules at infinite momentum.” SLAC preprint: SLAC-PUB-510.

McAllister, Robert W., and Robert Hofstadter. 1956. “Elastic Scattering of 188-Mev Electrons from the Proton and the Alpha Particle.” *Physical Review* 102:851–856.

The references for the following sources should be corrected in the bibliography. The correct references are given below:

Duhem, Pierre M. M. 1954. *The Aim and Structure of Physical Theory*. Translated from the second French edition (1914) by Philip P. Wiener. Princeton: Princeton University Press.

Riordan, Michael et al. 1974. "Extraction of  $R = \sigma_L/\sigma_T$  from Deep Inelastic  $e-p$  and  $e-d$  Cross Sections." *Physical Review Letters* 33:561–564.

We apologize to the author and the readers for these errors.

## Reference

Karaca, Koray. 2013. "The Strong and Weak Senses of Theory-Ladenness of Experimentation: Theory-Driven versus Exploratory Experiments in the History of High-Energy Particle Physics." *Science in Context* 26(1):93–136, doi:10.1017/S0269889712000300